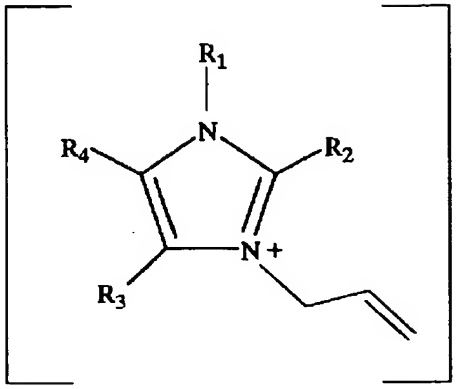
[Claims]

[1] An imidazolium compound represented by Formula (I) below:



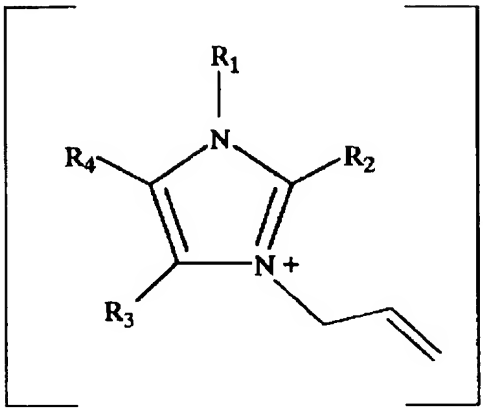
X^- (I)

in which, R_1, R_2, R_3, and R_4 independently denote a hydrogen atom, an optionally substituted alkyl group having 1 to 10 carbon atoms, an optionally substituted cycloalkyl group having 3 to 10 carbon atoms, an optionally substituted alkenyl group having 2 to 10 carbon atoms, or an optionally substituted aryl group having 6 to 10 carbon atoms, and X^- is Cl^-, Br^-, I^-, BF_4^-, PF_6^-, $CF_3SO_3^-$, or $(CF_3SO_2)_2N^-$, with the proviso that when R_1 is an alkyl group having 1 to 3 carbon atoms, X^- is BF_4^-, PF_6^-, $CF_3SO_3^-$, or $(CF_3SO_2)_2N^-$, and a case in which R_2 to R_4 are hydrogen atoms, R_1 is an allyl group, and X^- is Br^- is excluded.

[2] The imidazolium compound according to Claim 1, wherein R_1 is preferably an alkyl group having 4 to 8 carbon atoms or an alkenyl group having 2 to 4 carbon atoms.

[3] The imidazolium compound according to either Claim 1 or 2, wherein R_1 is an allyl group.

[4] A solvent comprising an imidazolium compound represented by Formula (I) below:



(I)

in which, R_1, R_2, R_3, and R_4 independently denote a hydrogen atom, an optionally substituted alkyl group having 1 to 10 carbon atoms, an optionally substituted cycloalkyl group having 3 to 10 carbon atoms, an optionally substituted alkenyl group having 2 to 10 carbon atoms, or an optionally substituted aryl group having 6 to 10 carbon atoms, and X^- is Cl^-, Br^-, I^-, BF_4^-, PF_6^-, $CF_3SO_3^-$, or $(CF_3SO_2)_2N^-$.

[5] An electrolyte material comprising the imidazolium compound according to Claim 4, wherein X^- is BF_4^-, PF_6^-, $CF_3SO_3^-$, or $(CF_3SO_2)_2N^-$.